

Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

What is claimed is:

1. A crushing - breaking apparatus, comprising a frame having side plates facing each other and spaced apart a predetermined distance, a first cutlery device provided in said frame, said first cutlery device comprising a plurality of first projection-shaped cutleries, a second cutlery device provided in said frame, said second cutlery device comprising a plurality of second projection-shaped cutleries, said plurality of second projection-shaped cutleries being disposed on said second cutlery device at locations offset relative to said first projection-shaped cutleries of said first cutlery device, first pivot means for pivotally supporting said first cutlery device, second pivot means for pivotally supporting said second cutlery device, said first cutlery device comprising a relatively upper and a relatively lower end, said second cutlery device comprising a relatively upper end and a relatively lower end, wherein said first pivot means is situated at least near said relatively upper end of said first cutlery device, wherein said second pivot means is situated at least near said relatively lower end of said second cutlery device, first abutment means effective for at times engaging said first cutlery device to thereby stop motion of said cutlery device about said first pivot means, second abutment means effective for at times engaging said second cutlery device to thereby stop motion of said second cutlery device about said second pivot means, first motor means operatively connected to said first

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(Original claim 1, Continued)

cutlery device at an area thereof which is at least closer
to said lower end of said first cutlery device than to said
upper end of said first cutlery device, and second motor
30 means operatively connected to said second cutlery device
at an area thereof which is at least closer to said upper
end of said second cutlery device than to said lower end of
said second cutlery device, said first motor means being
effective to pivotally move said first cutlery device about
35 said first pivot means as to thereby move said relatively
lower end of said first cutlery device toward said second
cutlery device, said second motor means being effective to
pivotally move said second cutlery device about said second
pivot means and generally toward said first cutlery device,
40 wherein said first cutlery device continues to so move
toward said second cutlery device and said second cutlery
device continues to so move toward said first cutlery device
as to place said relatively lower end of said first cutlery
device juxtaposed to said relatively lower end of said
45 second cutlery device and to place said relatively upper
ends of said first and second cutlery devices spaced from
each other and defining an inlet for placing work to be
crushed between said first cutlery device and said second
cutlery device.

2. A crushing - breaking apparatus according to claim 1
and further comprising abutment means, wherein as said
second cutlery device moves in a direction generally toward
said first cutlery device said second cutlery device
5 operatively engages said first cutlery device and moves said
first cutlery device in a direction of movement as said
second cutlery device is experiencing, and wherein said first
cutlery device continues to be moved by said second cutlery
device until said first cutlery device engages said
10 abutment means.

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3. A crushing - breaking apparatus according to claim 1
and further comprising stop means, wherein as said second
cutlery device moves in a direction generally toward said
first cutlery device said second cutlery device operatively
5 engages said first cutlery device and moves said first
cutlery device in a direction of movement as said second
cutlery device is experiencing, and wherein said first
cutlery device continues to be moved by said second cutlery
device until said first cutlery device engages said stop
10 means thereby stopping movement of said first cutlery device,
and wherein said second cutlery device continues in its
movement generally toward said first cutlery device even
after movement of said first cutlery device has been stopped
by said stop means.

4. A crushing - breaking apparatus according to claim 3 and further comprising second stop means, and wherein said second cutlery device continues movement generally toward said first cutlery device after said first cutlery device has stopped in movement until said second cutlery device operatively engages said second stop means.

5. A crushing - breaking apparatus according to claim 1
wherein said first motor means comprises a first hydraulic
cylinder assembly with a first housing and a first piston
responsive to the pressure of hydraulic fluid supplied
5 thereagainst, wherein said second motor means comprises a
second hydraulic cylinder assembly with a second housing
and a second piston responsive to the pressure of hydraulic
fluid supplied thereagainst, and wherein the force of the
first piston is maintained at a magnitude less than the
10 force of said second piston.

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 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6. A crushing - breaking apparatus according to
claim 1 and further comprising means for sensing whether
said second cutlery device is applying a force against said
first cutlery device and the work carried between said first
5 and second cutlery devices to be of a magnitude greater than
a preselected magnitude, second means upon said force being
sensed to be greater than said preselected magnitude being
effective to cause at least said second cutlery device to be
moved as to thereby increase the space between said first
10 and second cutlery devices to enable the work to fall
downwardly between said first and second cutlery devices
thereby placing the work in a location wherein a greater
mechanical crushing advantage by at least said second
cutlery device is attained as to crush said work without
15 requiring said force to be of a magnitude greater than said
preselected magnitude.

7. A crushing - breaking apparatus according to claim 1 and further comprising first means for sensing whether said second cutlery device is tending to apply a force against said first cutlery device and the work carried
5 between said first and second cutlery devices to be a magnitude greater than a preselected magnitude, second means upon said force being sensed to be greater than said preselected magnitude being effective to cause at least said
10 second cutlery device to be moved as to thereby increase the space between said first and second cutlery devices to enable the work to fall downwardly between said first and second cutlery devices thereby placing the work in a new location wherein a greater mechanical crushing advantage by
15 at least said second cutlery device is attained as to crush said work without requiring said force to be a magnitude greater than said preselected magnitude, wherein after said work has been placed in said new location and said first means is again sensing that said second cutlery device is
20 again tending to apply a force against said first cutlery device and the work carried between said first and second cutlery devices to be a magnitude again greater than said preselected magnitude, said second means upon said force being again sensed to be greater than said preselected
25 magnitude again being effective to again cause at least said second cutlery device to be moved as to thereby again

Time	Temperature	Humidity	Wind Speed	Wind Direction	Cloud Cover	Visibility	Pressure	Relative Humidity	Dew Point	Soil Temperature	Plant Growth	Notes
08:00	25.0	65%	10	SE	10%	10	1013.2	65%	18.0	15.0	Low	Clear sky, light breeze
09:00	26.5	60%	12	SE	15%	10	1013.0	60%	18.5	15.5	Low	Increasing cloud cover
10:00	28.0	55%	15	SE	20%	10	1012.8	55%	19.0	16.0	Low	Clouds increasing, wind strengthening
11:00	29.5	50%	18	SE	30%	10	1012.5	50%	19.5	16.5	Low	Significant cloud buildup
12:00	31.0	45%	20	SE	40%	10	1012.2	45%	20.0	17.0	Low	Thunderstorm developing
13:00	32.5	40%	22	SE	50%	10	1012.0	40%	20.5	17.5	Low	Heavy rain starting
14:00	34.0	35%	25	SE	60%	10	1011.8	35%	21.0	18.0	Low	Intense rain, strong wind
15:00	35.5	30%	28	SE	70%	10	1011.5	30%	21.5	18.5	Low	Peak of storm
16:00	37.0	25%	30	SE	80%	10	1011.2	25%	22.0	19.0	Low	Continuing heavy rain
17:00	38.5	20%	32	SE	90%	10	1011.0	20%	22.5	19.5	Low	Storm intensifying
18:00	40.0	15%	35	SE	100%	10	1010.8	15%	23.0	20.0	Low	Maximum intensity
19:00	41.5	10%	38	SE	100%	10	1010.5	10%	23.5	20.5	Low	Severe weather conditions
20:00	43.0	5%	40	SE	100%	10	1010.2	5%	24.0	21.0	Low	Extreme heat and humidity
21:00	44.5	0%	42	SE	100%	10	1010.0	0%	24.5	21.5	Low	Unbearable conditions
22:00	46.0	0%	45	SE	100%	10	1009.8	0%	25.0	22.0	Low	Critical weather state
23:00	47.5	0%	48	SE	100%	10	1009.5	0%	25.5	22.5	Low	End of observation period

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